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between sections of a union or between different unions.

As far as the future advancement of the particular subjects of Terrestrial Magnetism and Terrestrial Electricity are concerned, it is believed that a step of fundamental importance was taken at Brussels by the assignment of these subjects to a section by itself rather than relegating or subordinating them to some other branch of geophysics with which they might have but a very remote, or even but a purely administrative connection.

Besides receptions tendered by the burgomaster (Adolf Max), the Minister of Education, the Minister of Foreign Affairs, opportunity was afforded for a visit and reception on July 26 at the Uccle Royal Observatories, to whose director, Monsieur G. Lecointe, the signal success of the local arrangements is to be largely ascribed.

Let us hope that the powerful stimulus given geophysical research by the International Research Council will bear the desired fruit and bring about in each country adequate recognition of the needs for the advancement of our knowledge of the physics of the earth!

LOUIS A. BAUER

A MEDICAL SCHOOL, IN THE WAR AND AFTER

LADIES and gentlemen of the classes entering the Cornell Medical College, on behalf of the President, the Acting Dean and the Faculty, I bid you welcome! A year ago the college opened under the shadow of the world war and saddened also by the death of our great dean, William Mecklenburg Polk. Today the college reopens with its ranks filled, with new men added to its staff, and with important departments remodeled on modern lines. Dr. Polk's policy of reorganizing one department after another upon sound scientific principles has been continued since his death.

The war brought to every one the oppor-

tunity for public service and the lesson will not be lost. The participation of our college in the war is a cause for quiet satisfaction, and perhaps we may pause for a moment to glance at some of the activities of the institution which has been or is to be your intellectual home. A member of our faculty gave up his practise and went to Washington to assume control of important matters there. On speaking to him of his unselfishness, he replied that his lot was not worthy of sympathy when contrasted with the sacrifice of the many young second lieutenants in the medical service, who had their wives and babies at home to be supported by the meager salary paid by the government. This generous sentiment was illustrative of the spirit that spent itself freely for the welfare of the country.

In 1914 Dr. Stimson, a veteran of our Civil War, went from this college into the front trenches with the Belgians and showed them by candlelight antiseptic methods for the treatment of wounds. He returned there again in 1916 and was planning a third trip before he died in 1917.

One of our professors took the New York Hospital unit to France. Another was chief officer in charge of all the pathological laboratories in France. We visualize such men as healing the wounds of those hurt in battle or seeking out new methods of cure in the laboratories behind the lines.

One of the women graduates of this college went abroad as secretary to the head of the Bellevue Hospital unit. When later the chief of that hospital went to the front he left her in charge of the base hospital, the younger men remaining there willingly recognizing her superiority.

Another of our professors was at first chosen to standardize surgical dressings for the American Red Cross. He also trained 135 army surgeons in the surgery of war wounds. This course aroused their enthusiasm both when it was given and later in retrospect abroad, and it brought the comment from the Surgeon-General's Office that it was the best constructed and most comprehensive course given in the country. This

¹ An address of welcome to the students of the Cornell University Medical College, September 29, 1919.

master surgeon finally won his way to the front in France and, although suffering from the results of a grievous fall which brought great pain at every foot-step, he trudged for miles with our advancing armies. This portrays the spirit of courage and sacrifice which should be a fundamental principle in the practise of your profession.

To those who remained at home the mental hardship of so doing was often very great. One of our professors, when asked to enter the service, was bluntly told by Dean Polk, "If you wish to close this school you can accept this offer." So the man stayed at home and nearly lost his life later in gas experiments for the government.

The war brought its special scientific problems. In this school 429 men were trained in roentgenology, and the first portable x-ray apparatus for use in the field was here constructed.

Through a special knowledge acquired in Bellevue Hospital, another professor so perfected the ventilation system in the submarine that one of our United States boats remained submerged for four days, a world record.

From this school went one who had the scientific supervision over the nutrition of the United States Army. Another distributed a million dollars' worth of food among the Serbians and recently left that country with its fields 90 per cent. planted and its people blessing the American officers for their kindly generosity.

Some of our students entered the regular fighting forces, one leaving the college during his second year in medicine and returning as a major. We welcome those men back to their work with us.

Many other services, heroic and intellectual, were rendered by and through this institution during the great crisis. I have mentioned only a few instances which have come to me. It has been said that no man should be vain of personal accomplishment. Davenport says that if an individual has been given great powers of heart and mind which have been properly developed by education, his intelligent reaction to circumstances is a question

of innate mental endowment and, therefore, not a matter for personal conceit. It is permissible, however, to say that you, who are now placed in an environment suggestive of moral and mental capacity, may profitably develop your own capacities each according to his individual endowment.

I have briefly sketched the war activities of some of your teachers. They are in this work of teaching, not for financial reward, but in spite of the lack of it. Professors' salaries have not risen during the war but the professors have not gone on strike.

In Ludwig's physiological laboratory in Leipzig there was an old servant named Salvenmoser who had helped the professor for thirty-five years. When Salvenmoser wished his pay raised he became ill and retired to his quarters in the upper part of the physiological laboratory. During this time the celebrated Professor Ludwig could perform none of his celebrated experiments, and as much as a week might pass before the pay was raised; then Salvenmoser recovered from his illness and the experiments were resumed. In thinking over this little story it seems to me to have been prophetic of the workers of the present day, for many of them have been converted into Salvenmosers—willing to thwart the great experiments of world endeavor by feigning illness. But university professors, however underpaid and hard pressed, have not gone on strike, but stand prepared to serve you for the common good.

I do not know how many of you have read an opening paragraph which has for several years been in the catalogue of the Cornell University Medical School:

The objects of this school are:

1. To develop physicians of the best type and
2. To conduct researches into the cause and cure of disease.

As a matter of fact, these two objects are not separable, for in order to produce a modern physician of the best type he must be educated in the atmosphere of developing knowledge which we call research. A cynic of another generation has remarked that the ancients tried to make medicine a science

and failed, while the moderns tried to make it a trade and succeeded. But now the modern trend is in the direction of a true science of medicine.

As you doubtless know, the department of medicine has been reorganized under the wise direction of Dr. Conner. It is our great pleasure to hail the return to Cornell and to the New York Hospital of a man of the exceptional ability of Dr. Foster who for several years has been professor of medicine at the University of Michigan. At Bellevue Hospital the reorganization of the medical clinic by Dr. Conner has placed it in a position to become one of the most powerful influences for medical progress in the country. A full-time staff, Drs. Du Bois, Peters, Barr, Alexander (and McCann will join them), all of whom have been recently discharged from the military or naval services of this country, are giving their entire time for the purpose of instructing students and for carrying on researches into the cause and cure of disease. Three of these men are graduates of the P. and S., two of our own college. Some of the men are supported from the funds of the Russell Sage Institute of Pathology, given by Mrs. Sage for the benefit of the sick poor, and others are supported by friends of the college.

This undertaking followed several years after the introduction of full-time men on the surgical division under Dr. Hartwell. We may all rejoice at the rich opportunities for learning which are offered both in medicine and surgery in Bellevue Hospital.

Another very notable increase in the potential power of the school as a teaching institution has been attained during the summer through the appointment of Dr. Schloss as professor of pediatrics. The true guiding principle of every successful institution has been followed, the appointment of the best man available in the country to fill the place. The highest opportunities for work in pediatrics now lie open to the students of this school and under the best of direction.

An old Swiss physician, Sondereggers, once wrote a letter of advice to a father whose son desired to study medicine, and this letter has

so much idealism in it that it seems permissible to read it to you.

There is nothing greater or more beautiful in the world than man. He is the mightiest and most elevated example of thought and education. His existence, his struggle, his suffering, are all in the highest degree wonderful and stimulating. Thou must bring clear eyes and fine ears, a great talent for observation, patience and again patience for endless study, a clear critical mind which grows stronger in time of necessity, and yet a warm, susceptible heart which understands and sympathizes with every sorrow; religion and moral earnestness which have dominion over lust, money and honor; also a becoming exterior, a polished demeanor, health of body and spirit. All these thou must possess or thou wilt be a bad or an unhappy physician. Thou must carry great knowledge even like to a camel's burden, and also preserve the freshness of the poets. Thou must overcome all arts of charlatanry and in so doing remain an honorable man. Medicine must come first and be thy religion and politics, thy joy and thy sorrow. Therefore I would never advise anyone to be a physician. If he still wishes to be one, warn him again and severely; if he wishes it notwithstanding; then give him thy blessing in so far as he is worthy of it; he will need it.

We will be glad to have all students entering this college feel that they are welcome guests to its halls, guests who come as men and women earnestly desirous of enjoying such intellectual opportunities as are here generously offered. I would ask you to show your appreciation of the gifts which private endowment makes possible, in that you should treat the building and its contents with that scrupulous care and reverence which you would naturally bestow upon the personal property of a generous benefactor who was also a great friend. If you accept what there is here in good spirit, and if the external life of the country permits an orderly community life within these walls, you will find opportunities for golden days in the time to come.

GRAHAM LUSK

SCIENTIFIC EVENTS

COOPERATIVE CONSERVATION OF THE INDIANA-LAKE MICHIGAN SAND DUNES

For some time a quiet agitation for the setting aside of this unique region abounding